

ABSTRACT

PT. Medco CBM Sekayu is a subsidiary of PT. Medco E & P Indonesia. The Company is engaged in the development of Coal Bed Methane (CBM), the area of development in Block Sekayu, South Sumatera.

PT. Medco CBM Sekayu has drilled five exploration wells, there are CBM Well 1#, CBM Well 2#, CBM Well 3#, CBM Well 4# and CBM Well 5#, located in Block Sekayu, Musi Banyuasin, South Sumatera. Of the five exploration wells, only CBM Well 2# that have production and produces a number of water and gas from dewatering activities.

CBM Well 2# have a depth of 594,36 m. Dewatering activities in CBM Well 2# using Progressive Cavity pump (PCP) 60TP1300 of April 2011 to March 2012, then made the turn pump using Electric Submersible Pump (ESP) TG2000 at April 2012. Replacement pump made for torque anchor damage and leaks at the pump packing polrod PCP. Production of high water using a PCP 60TP1300 pump occurred in September 2011 amounted to 5.852 barrels. In June with the replacement ESP TG2000, generating water at 32.351,6 barrels. Reservoir pressure of 1.000 psia on water production by 2.703,2 barrels while gas production 398,9 SCF (Standard Cubic Feet). With the decline in reservoir pressure from dewatering activities, greater gas production than the production of water, this can be seen when the reservoir pressure drops to the pressure of 500 psia gas production increased to 59.284 SCF while water production 32.351,6 barrels

Key Word : Coal Bed Methane (CBM), Wells, dewatering, air and gas production